

The molecular weight distributions for the  
base polymer and the final polymer

FIG-1

2/4

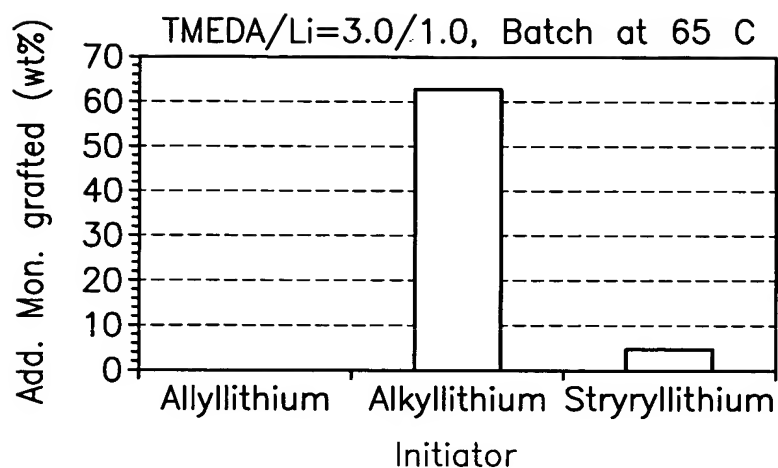


FIG-2a

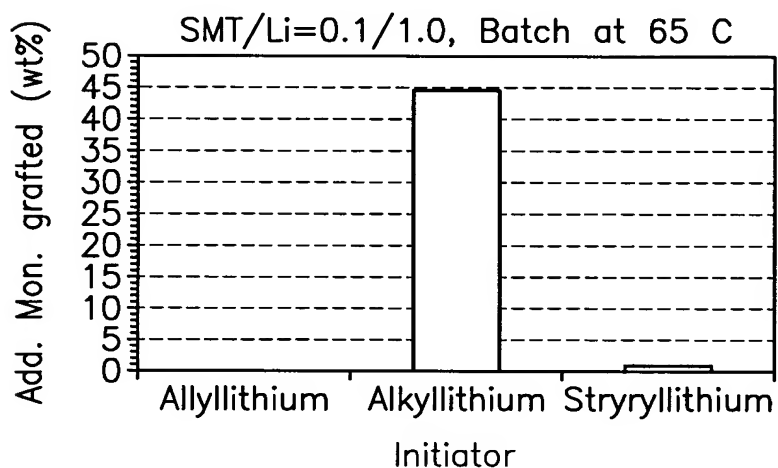


FIG-2b

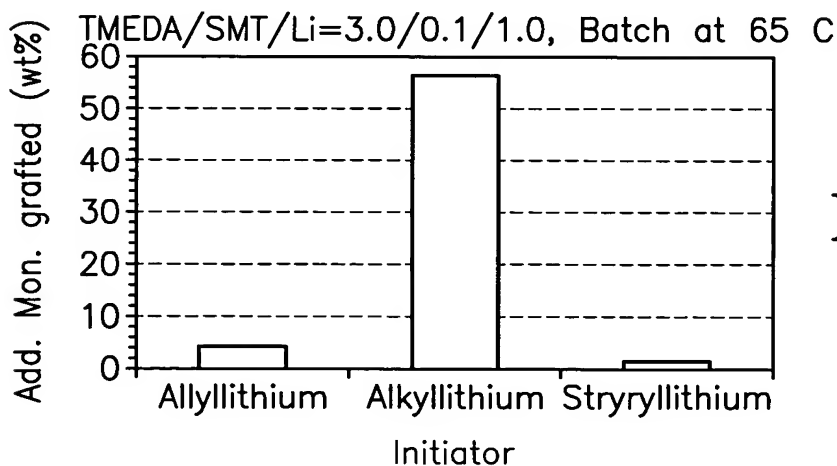
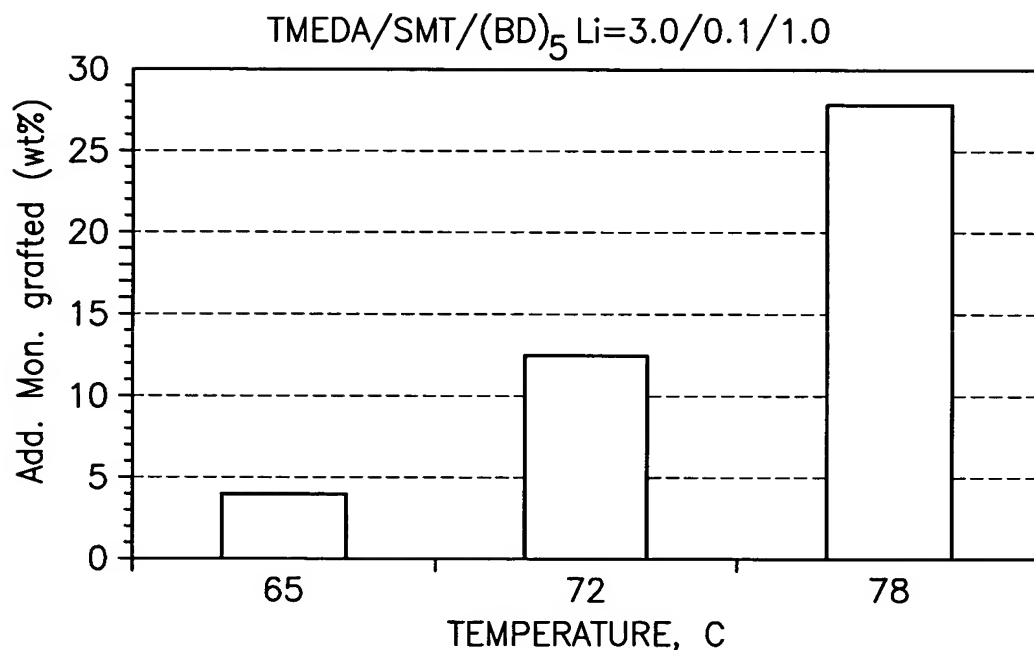


FIG-2c

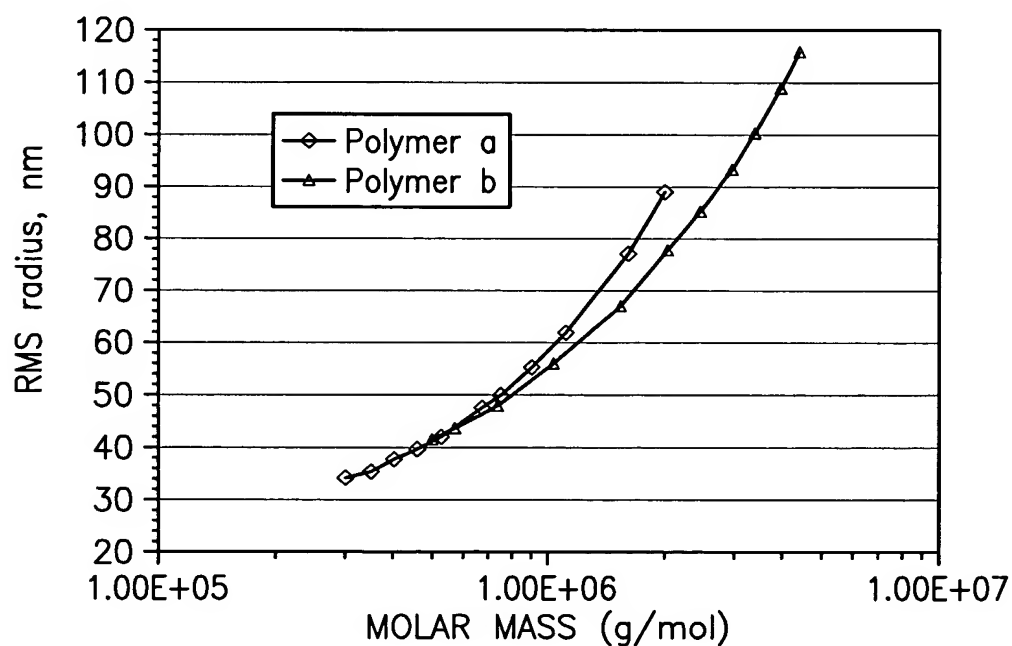
The amount of additional monomer added after the metallation step that was grafted on the base polymer chains under different initiator systems: (a) TMEDA/Li=3.0/1.0; (b) SMT/Li=0.1/1.0; and (c) TMEDA/SMT/Li=3.0/0.1/1.0

3/4



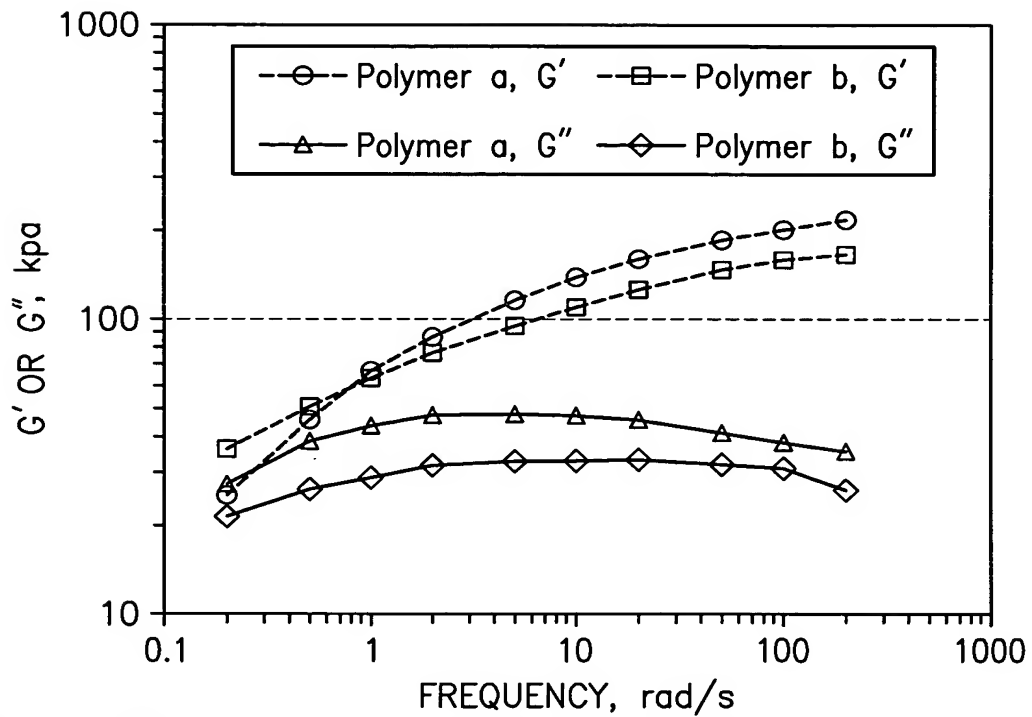
The amount of additional monomer added after the metallation step that was grafted on the base polymer chains under different metallation temperatures

FIG-3

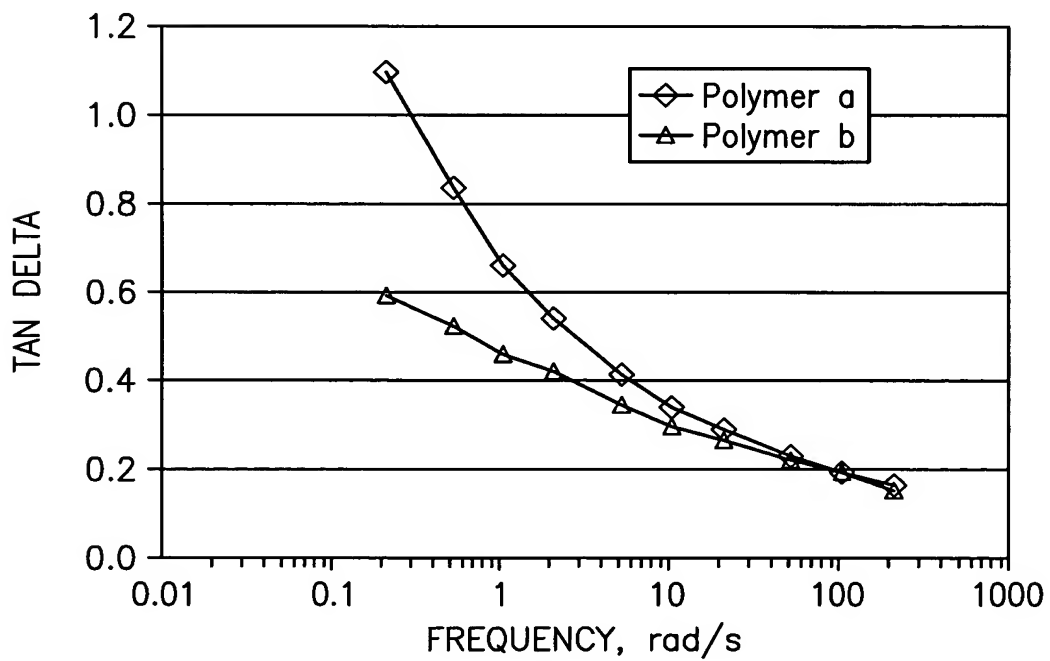


Root Mean Square (RMS) radius vs. molecular weight

FIG-4



Shear Moduli vs. frequency for Polymers a and b

**FIG-5**Tan  $\Delta$  vs. frequency for polymers a and b**FIG-6**